

City of Norfolk

Water Quality Analysis

This report covers the 1st Quarter of 2024

Wednesday, June 11, 2025

Kristen M. Lentz Water Treatment Plant

Primary Regulated Compounds

These are compounds for which there are actual limits called Maximum Contaminant Levels, or MCLs. The MCL is the highest level of a contaminant that is allowed in drinking water. The Environmental Protection Agency establishes these levels based on health effects research.

Compound		Result	MCL	Method
Antimony	<	0.002 mg/L	0.006 mg/L	EPA 200.8
Arsenic	<	0.002 mg/L	0.010 mg/L	EPA 200.8
Barium		0.025 mg/L	2 mg/L	EPA 200.8
Beryllium	<	0.002 mg/L	0.004 mg/L	EPA 200.8
Cadmium	<	0.002 mg/L	0.005 mg/L	EPA 200.8
Chromium	<	0.002 mg/L	0.1 mg/L	EPA 200.8
Copper	<	0.025 mg/L	1.3 mg/L	EPA 200.8
Lead	<	0.0025 mg/L	0.015 mg/L	EPA 200.8
Mercury	<	0.0002 mg/L	0.002 mg/L	EPA 200.8
Selenium	<	0.002 mg/L	0.05 mg/L	EPA 200.8
Thallium	<	0.002 mg/L	0.002 mg/L	EPA 200.8
TTHM Compliance		35.6 ug/L	80 ug/L	EPA 524.2

Secondary Regulated Compounds

These compounds have no health significance, but can cause tastes or odors in your water. For this reason, secondary limits called Secondary Maximum Contaminant Levels (SMCLs) have been established. Exceeding these standards does not mean that the water is unhealthy, only that it might taste or smell unusual.

Compound		Result	SMCL	Method
Aluminum		0.062 mg/L	0.05-0.2 mg/L	EPA 200.8
Chloride		15 mg/L	250 mg/L	EPA 300.0
Foaming Agents	<	0.1 mg/L	0.5 mg/L	HACH TNT 874
Iron		0.036 mg/L	0.3 mg/L	EPA 200.8
Langelier Index		-1.73 LANG	Noncorrosive	Calculated
Manganese	<	0.005 mg/L	0.05 mg/L	EPA 200.8
Silver	<	0.002 mg/L	0.1 mg/L	EPA 200.8
Solids, Total Dissolved		117 mg/L	500 mg/L	SM 2540 C
Zinc		0.171 mg/L	5 mg/L	EPA 200.8

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Compounds and Physical Characteristics of Interest

These water quality parameters are not regulated, but are frequently requested by customers.

Compound	Result	Method
Hardness, gr/Gal	2.1 gr/Gal	Calculated
Potassium	2.752 mg/L	EPA 200.8
Silica	6.5 mg/L	EPA 200.7
Sodium	29.27 mg/L	EPA 200.8
Solids, Total	133 mg/L	SM 2540 B
Solids, Volatile	10 mg/L	SM 2540 E
Temperature, C	10 °C	CALCULATED

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Additional Unregulated Compounds

Although we are not required to monitor for the following compounds, we include them in order to evaluate compliance with future regulations.

Compound	Result	Method
Boron	0.056 mg/L	EPA 200.7
Molybdenum	< 0.002 mg/L	EPA 200.8
Nickel	0.004 mg/L	EPA 200.8
Vanadium	< 0.002 mg/L	EPA 200.8

Samples collected on: 2/13/2024 Location: KML Water Treatment Plant Effluent

Notes of Interest:

1. The MCLs for Lead and Copper, the "action levels," are measured at the 90th percentile of all samples collected.
2. THMs and HAAs are based on a four quarter running average of eight locations throughout Norfolk.
3. Water treatment plant is on a reduced monitoring schedule as of Quarter 3 2021.

For questions concerning this report, please call the Division of Water Quality's Laboratory at 441-5678, Monday thru Friday 8:00am to 4:00pm.

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<http://www.epa.gov/safewater/mcl.html>